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Form C-105  
Revised 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease  
State ☐ Fee ☒  
5. State Oil & Gas Lease No.

1a. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ DRY ☐  
b. TYPE OF COMPLETION  
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Unit Agreement Name  
8. Farm or Lease Name  
Hawk Federal  
9. Well No.  
2  
10. Field and Pool, or Wildcat  
Gavilan Mancos

2. Name of Operator  
Southland Royalty Company

3. Address of Operator  
P.O. Drawer 570, Farmington, New Mexico 87499

4. Location of Well  
UNIT LETTER C LOCATED 910 FEET FROM THE North LINE AND 1840 FEET FROM THE West LINE OF SEC. 35 TWP. 25N RGE. 2W NMPM

12. County  
Rio Arriba

15. Date Spudded 1-30-84 16. Date T.D. Reached 2-13-84 17. Date Compl. (Ready to Prod.) 3-25-84 18. Elevations (DF, RKB, RT, GR, etc.) 7331' KB 19. Elev. Casinghead 7319' GL

20. Total Depth 8160' 21. Plug Back T.D. 8116' 22. If Multiple Compl., How Many 23. Intervals Drilled By 0-8160' Rotary Tools Cable Tools

24. Producing Interval(s), of this completion - Top, Bottom, Name  
6766'-7039' Upper Mancos  
7312'-7448' Lower Mancos  
25. Was Directional Survey Made Deviatonal

26. Type Electric and Other Logs Run IEL, CDL/CNL, CBL, After Frac Gamma Ray and After Frac Temperature  
27. Was Well Cored No

| 28. CASING RECORD (Report all strings set in well) |                |           |           |                    |               |
|--|----------------|-----------|-----------|--------------------|---------------|
| CASING SIZE  | WEIGHT LB./FT. | DEPTH SET | HOLE SIZE | CEMENTING RECORD   | AMOUNT PULLED |
| 9-5/8"   | 36#, K-55      | 335'      | 12-1/4"   | **SEE OTHER SIDE** |               |
| 5-1/2"   | 15.5# & 17#    | 8160'     | 7-7/8"    | " " "              |               |
|  |                |           |           |                    |               |
|  |                |           |           |                    |               |

| 29. LINER RECORD |      |        |              | 30. TUBING RECORD |        |           |
|------------------|------|--------|--------------|-------------------|--------|-----------|
| SIZE             | TOP  | BOTTOM | SACKS CEMENT | SCREEN            | SIZE   | DEPTH SET |
| ---              | ---- | -----  | ---          |                   | 2-3/8" | 7453.63'  |
|                  |      |        |              |                   |        |           |
|                  |      |        |              |                   |        |           |

31. Perforation Record (Interval, size and number)  
Upper Mancos: 6766', 6787', 6796', 6807', 6811', 6820', 6828', 6836', 6854', 6862', 6870', 6886', 6895', 6901', 6909', 6913', 6964', 6970', 6976', 6982', 6990', 6998', 7004', 7013', 7025', 7033', 7039'. Lwr Mancos: 7312', 7320', 7334', 7340', 7346', 7424', 7429', 7436', 7443', 7448'.  
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED  
6766'-7039' Fracd with 93,870 gals of 30# gel 2% KCl & 100,000# 20/40 sand.  
7312'-7448' Fracd w/32,214 gal of 30# gel 2% KCl & 12,500# 20/40 sand.

Date First Production 4-25-84 Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing Well Status (Prod. or Shut-in) Producing  
Date of Test 5-06-84 Hours Tested 24 Choke Size 1" Prod'n. For Test Period 215 Oil - Bbl. 526 Gas - MCF 17 Water - Bbl. 2447/1 Gas - Oil Ratio  
Flow Tubing Press. 90 Casing Pressure ----- Calculated 24-Hour Rate ----- Oil - Bbl. ----- Gas - MCF ----- Water - Bbl. ----- Oil Gravity - API (Corr.) -----

34. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold Test Witnessed By Dewayne Horton

35. List of Attachments  
36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.  
SIGNED Ethan Greyson TITLE Secretary DATE 5-07-84

# INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

## INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

| Southeastern New Mexico  |                        |                             | Northwestern New Mexico |                        |  |
|--------------------------|------------------------|-----------------------------|-------------------------|------------------------|--|
| T. Anhy _____            | T. Canyon _____        | T. Ojo Alamo _____          | 2420'                   | T. Penn. "B" _____     |  |
| T. Salt _____            | T. Strawn _____        | T. Kirtland-Fruitland _____ | 3050'                   | T. Penn. "C" _____     |  |
| B. Salt _____            | T. Atoka _____         | T. Pictured Cliffs _____    | 3266'                   | T. Penn. "D" _____     |  |
| T. Yates _____           | T. Miss _____          | T. Cliff House _____        | 3398'                   | T. Leadville _____     |  |
| T. 7 Rivers _____        | T. Devonian _____      | T. Menefee _____            | 5108'                   | T. Madison _____       |  |
| T. Queen _____           | T. Silurian _____      | T. Point Lookout _____      | 5224'                   | T. Elbert _____        |  |
| T. Grayburg _____        | T. Montoya _____       | T. Mancos _____             | 5583'                   | T. McCracken _____     |  |
| T. San Andres _____      | T. Simpson _____       | T. Gallup _____             | 5815'                   | T. Ignacio Qtzte _____ |  |
| T. Glorieta _____        | T. McKee _____         | Base Greenhorn _____        | 6690'                   | T. Granite _____       |  |
| T. Paddock _____         | T. Ellenburger _____   | T. Dakota _____             | 7650'                   | T. _____               |  |
| T. Blinebry _____        | T. Gr. Wash _____      | T. Morrison _____           | 7839'                   | T. _____               |  |
| T. Tubb _____            | T. Granite _____       | T. Todilto _____            |                         | T. _____               |  |
| T. Drinkard _____        | T. Delaware Sand _____ | T. Entrada _____            |                         | T. _____               |  |
| T. Abo _____             | T. Bone Springs _____  | T. Wingate _____            |                         | T. _____               |  |
| T. Wolfcamp _____        | T. _____               | T. Chinle _____             |                         | T. _____               |  |
| T. Penn. _____           | T. _____               | T. Permian _____            |                         | T. _____               |  |
| T. Cisco (Bough C) _____ | T. _____               | T. Penn. "A" _____          |                         | T. _____               |  |

## FORMATION RECORD (Attach additional sheets if necessary)

| From                        | To | Thickness<br>in Feet | Formation   | From | To | Thickness<br>in Feet | Formation |
|-----------------------------|----|----------------------|---|------|----|----------------------|-----------|
| Item #28 - Cementing Record |    |                      |   |      |    |                      |           |
| 9-5/8"                      |    |                      | Casing cemented with 318.6 cu.ft. (270 sacks) of Class "B" with 1/4# gel flake per sack and 2% CaCl <sub>2</sub> . Plug down at 9:00 PM 1-30-84. Circulated 10 bbls to surface.   |      |    |                      |           |
| 5-1/2"                      |    |                      | Casing cemented 1st Stage with 593 cu.ft. (460 sacks) of Class "B" 50/50 Poz with 2% gel, 1/4# celloflake, 10% salt and .6% FLA, tailed in with 50 sacks (59 cu.ft.) of Class "B" cmt. Plug down at 11:53 AM 2-15-84.                       |      |    |                      |           |
|                             |    |                      | Cemented 2nd Stage with 361 cu.ft. (280 sacks) of Class "B" 50/50 Poz with 2% gel, 1/4# celloflake, 10% salt and .6% FLA, tailed in with 59 cu.ft. (50 sacks) of Class "B" neat cement. Plug down at 2:50 PM 2-15-84.                       |      |    |                      |           |
|                             |    |                      | Cemented 3rd Stage with 464 cu.ft. (360 sacks) of Class "B" 50/50 Poz with 2% gel, 1/4# celloflake, 10% salt and .6% FLA, tailed in with 108 cu.ft. (100 sacks) of Class "B" Neat with 2% CaCl <sub>2</sub> . Plug down at 5:45 PM 2-15-84. |      |    |                      |           |
|                             |    |                      | Good circulation on all three stages. TOC at 2750'.   |      |    |                      |           |